

AMENDMENTS TO THE CLAIMS

Please cancel Claims 1-15 and 22-25 as follows.

LISTING OF CLAIMS

1-15. (cancelled)

16. (original) An adjusting method for a single chip photo sensing device comprising a photoelectric transfer element for converting received light into an electric signal, a signal processing circuit for processing said electric signal of said photoelectric transfer element, and a thin-film resistor used for a circuit adjustment, said adjusting method comprising the steps of:

connecting an ammeter to an output terminal of said photoelectric transfer element;

irradiating reference light having a predetermined intensity on said photoelectric transfer element;

storing a current value detected by said ammeter when said photoelectric transfer element is irradiated by said reference light;

replacing said ammeter with a current generating source;

supplying current from said current generating source to said signal processing circuit by an amount identical with said stored current value under a condition no light is irradiated on said photoelectric transfer element; and

performing a laser trimming on said thin-film resistor to generate a desired output from said signal processing circuit as a result of the circuit adjustment.

17. (original) The adjusting method in accordance with claim 16, wherein said photoelectric transfer element is a photo diode and said output terminal is an anode.

18. (original) The adjusting method in accordance with claim 16, wherein said circuit adjustment is performed on a wafer comprising a plurality of sensor forming segments.

19. (original) An adjusting apparatus for a single chip photo sensing device comprising a photoelectric transfer element for converting received light into an electric signal, a signal processing circuit for processing said electric signal of said photoelectric transfer element, and a thin-film resistor used for a circuit adjustment, said adjusting apparatus comprising:

an ammeter connected to an output terminal of said photoelectric transfer element;

a light source for irradiating reference light having a predetermined intensity on said photoelectric transfer element;

a memory means for storing a current value detected by said ammeter when said photoelectric transfer element is irradiated by said reference light emitted from said light source;

a current generating source replaceable with said ammeter for supplying current to said signal processing circuit by an amount identical with said current value stored in said memory means; and

a laser oscillator for performing a laser trimming on said thin-film resistor to

generate a desired output from said signal processing circuit in response to said current entered from current generating source as a result of the circuit adjustment, said laser trimming being performed under a condition no light is irradiated on said photoelectric transfer element.

20. (original) The adjusting apparatus in accordance with claim 19, wherein said photoelectric transfer element is a photo diode and said output terminal is an anode.

21. (original) The adjusting apparatus in accordance with claim 19, wherein said circuit adjustment is performed on a wafer comprising a plurality of sensor forming segments.

22-25. (cancelled)

26. (original) An adjusting method for a photo sensing integrated circuit device comprising a light-receiving element having a light-receiving portion formed on a chip surface thereof, a signal processing circuit comprising a digital circuit element, an analog circuit element and a circuit adjusting element cooperatively processing a detection signal produced from said light-receiving element, and a light-shielding film provided for selectively setting a light-receiving region on said chip surface, said adjusting method comprising the steps of:

connecting an ammeter to an output terminal of said light-receiving element;
irradiating reference light having a predetermined intensity on said light-

receiving portion of said light-receiving element;

storing a current value detected by said ammeter when said light-receiving portion is irradiated by said reference light;

replacing said ammeter with a current generating source;

supplying current from said current generating source to said signal processing circuit by an amount identical with said stored current value under a condition no light is irradiated on said light-receiving portion of said light-receiving element; and

performing a laser trimming on said circuit adjusting element to generate a desired output from said signal processing circuit.

27. (original) The adjusting method in accordance with claim 26, wherein said light-receiving element is a photo diode and said output terminal is an anode.

28. (original) The adjusting method in accordance with claim 26, wherein said adjustment is performed on a wafer comprising a plurality of sensor forming segments.

29. (original) An adjusting apparatus for a photo sensing integrated circuit device comprising a light-receiving element having a light-receiving portion formed on a chip surface thereof, a signal processing circuit comprising a digital circuit element, an analog circuit element and a circuit adjusting element cooperatively processing a detection signal produced from said light-receiving element, and a light-shielding film provided for selectively setting a light-receiving region on said chip surface, said adjusting apparatus comprising:

an ammeter connected to an output terminal of said light-receiving element;

a light source for irradiating reference light having a predetermined intensity on said light-receiving portion of said light-receiving element;

a memory means for storing a current value detected by said ammeter when said light-receiving portion is irradiated by said reference light emitted from said light source;

a current generating source replaceable with said ammeter for supplying current to said signal processing circuit by an amount identical with said current value stored in said memory means; and

a laser oscillator for performing a laser trimming on said circuit adjusting element to generate a desired output from said signal processing circuit in response to said current entered from current generating source, said laser trimming being performed under a condition no light is irradiated on said light-receiving portion of said light-receiving element.

30. (original) The adjusting apparatus in accordance with claim 29, wherein said light-receiving element is a photo diode and said output terminal is an anode.

31. (original) The adjusting apparatus in accordance with claim 29, wherein said adjustment is performed on a wafer comprising a plurality of sensor forming segments.